

## MATERIAL SAFETY DATA SHEET

DATE PRINTED: 12/05/1995  
15543700 4-999998 3E COMPANY

PAGE 1  
MSDS NO. 905

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SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION  
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MANUFACTURERS NAME  
W.M. BARR & COMPANY, INC.

ADDRESS  
2105 Channel Ave.  
Memphis, TN 38113 USA

EMERGENCY TELEPHONE #1  
901-775-0100

EMERGENCY CONTACT  
W.M. Barr Technical Services

EMERGENCY INFORMATION

See Section 5 for additional Emergency Information

INVENTORY ITEM #  
GMA58

CHEMICAL FORMULA  
905

PRODUCT NAME

KLEAN-STRIP MURIATIC ACID

REVISED BY  
W.M. Barr Technical Services

REVISION DATE  
12/05/1995

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SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS  
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CARCINOGENICITY

SUBSTANCE DESCRIPTION	PERCENT	CAS#	NTP	ACGIH	OSHA	IARC
HYDROCHLORIC ACID	95-100	7647-01-0	N	N	N	N
** ABOVE INGREDIENT CONSISTS OF THE FOLLOWING **						
HYDROGEN CHLORIDE	30- 35	7647-01-0	N	N	N	N

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SECTION 3. REGULATORY INFORMATION  
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EXPOSURE LIMITS/REGULATORY INFORMATION

SUBSTANCE DESCRIPTION	REG.AGCY U/M		TWA	STEL	CEIL	SKIN	PEL
HYDROCHLORIC ACID	ACGIH	PPM	N/E	N/E	5.00	N	N/E
	OSHA	PPM	N/E	N/E	5.00	N	5.00
HYDROGEN CHLORIDE	ACGIH	PPM	N/E	N/E	5.00	N	N/E
	OSHA	PPM	N/E	N/E	5.00	N	5.00

ADDITIONAL REGULATORY INFO

The time weighted average (TWA) value described herein is a threshold limit value (TLV) as established by ACGIH. The permissible exposure limit (PEL) is a value established by OSHA.

CALIFORNIA (PROPOSITION #65)

Ingredients in this product are not listed on California's Prop 65 list: "Chemicals Known to the State to Cause Cancer or Reproductive Toxicity."

SEC. 313 SUPPLIER NOTIFICATION

The following information must be included in all MSDS that are copied and distributed for this material.

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40CFR 372):

SUBSTANCE DESCRIPTION	PERCENT BY WEIGHT (UPPER LIMIT)	CAS#
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SECTION 3. REGULATORY INFORMATION  
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HYDROGEN CHLORIDE 35 7647-01-0

**CLEAN AIR ACT**

This formula contains no known ozone depleting chemicals.

**HAZARD COMMUNICATION STANDARD**

This document is prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200). This MSDS contains thirteen (13) sections.

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The following effects and/or symptoms are not expected to be experienced by persons who use this product properly and according to ALL instructions, precautions, and warnings; however, should the product user experience ANY questionable effects or symptoms, the product user should immediately seek medical attention.

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SECTION 4. HAZARDS IDENTIFICATION

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**INHALATION ACUTE EXPOSURE EFFECTS**

May cause irritation of respiratory tract, and cough.

**SKIN CONTACT ACUTE EXPOSURE EFFECTS**

Causes severe burns and irritation.

**EYE CONTACT ACUTE EXPOSURE EFFECTS**

Causes severe burns.

**INGESTION ACUTE EXPOSURE EFFECTS**

Poison. May be fatal if swallowed. May cause severe irritation, perforation of the intestinal tract, and burns in mouth, pharynx, and gastrointestinal tract.

**CHRONIC EXPOSURE EFFECTS**

None known.

**MEDICAL CONDITIONS AGGRAVATED**

None known.

**PRIMARY ROUTE OF EXPOSURE**

Inhalation, ingestion, and dermal.

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SECTION 5. FIRST AID MEASURES

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**INHALATION**

If user experiences breathing difficulty, move to air free of vapors. Administer oxygen or artificial respiration until medical assistance can be rendered.

**SKIN CONTACT**

Wash with soap and large quantities of water and seek medical attention if irritation from contact persists.

**EYE CONTACT**

Flush with large quantities of water for at least 15 minutes and seek immediate medical attention.

**INGESTION**

Do not induce vomiting. Drink 1 or 2 glasses of water or milk to dilute. Never give anything by mouth to an unconscious person. Call your poison control center, hospital emergency room or physician immediately for instructions.

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SECTION 5. FIRST AID MEASURES  
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**NOTE TO PHYSICIAN**

This formula is registered with POISINDEX.  
Call your local poison control center for further information.

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SECTION 6. FIRE FIGHTING MEASURES

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HAZARD RATING SOURCE	HMIS	NFPA
HEALTH	3	3
FLAMMABILITY	0	0
REACTIVITY	1	1
OTHER	H	NA

**FLASH METHOD**  
N/A

**FLASH POINT**  
N/E F N/E C N/A

**LOWER EXPLOSION LIMIT**  
N/E

**GENERAL COMMENTS**

OSHA FLAMMABILITY: Not Applicable

**EXTINGUISHING METHOD**

Use carbon dioxide, dry powder, or foam.

**FIRE FIGHTING PROCEDURES**

Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up. Stay away from heads of containers that have been exposed to intense heat or flame.

**FIRE AND EXPLOSION HAZARDS**

Keep container tightly closed.

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SECTION 7. ACCIDENTAL RELEASE MEASURES

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**CLEAN-UP**

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind, out of low areas, and ventilate closed spaces before entering. Shut off ignition sources; keep flares, smoking or flames out of hazard area. **SMALL SPILLS:** take up liquid with sand, earth or other noncombustible absorbent material and place in a plastic container where applicable. **LARGE SPILLS:** dike far ahead of spill for later disposal.

For transportation related spills contact Chemtrec at 1-800-424-9300 for emergency assistance.

**WASTE DISPOSAL**

Dispose in accordance with applicable local, state and federal regulations.

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**SECTION 8. HANDLING AND STORAGE**

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**STORAGE**

Keep container tightly closed when not in use. Store in cool, dry place, away from direct sunlight and heat to avoid can deterioration. Avoid storage at extreme high or low temperatures. Protect from freezing.

**HANDLING**

Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container.

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**SECTION 9. TRANSPORT INFORMATION**

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**TRANSPORTATION**

For D.O.T. information, contact W.M. Barr Technical Services Department.

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**SECTION 10. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**VENTILATION PROTECTION**

Use only with adequate ventilation to prevent build-up of vapors. Open all windows and doors. Use only with a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness, headache, nausea, or eye-watering - STOP - ventilation is inadequate. Leave area immediately.

**RESPIRATORY PROTECTION**

For OSHA controlled workplace and other regular users - Use only with adequate ventilation under engineered air control systems designed to prevent exceeding appropriate TLV. For occasional use, where engineered air control is not feasible, use properly maintained and properly fitted NIOSH approved respirators. A dust mask does not provide protection against vapors.

**SKIN PROTECTION**

Wear impermeable gloves. Gloves contaminated with product should be discarded. Promptly remove clothing that becomes soiled with product.

**EYE PROTECTION**

Safety glasses, chemical goggles or face shields are recommended to safeguard against potential eye contact, irritation, or injury. Contact lenses should not be worn while working with chemicals.

**OTHER PROTECTION**

Various application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure. A source of clean water should be available in the work area for flushing eyes and skin. Do not eat, drink, or smoke in the work area. Wash hands thoroughly after use. Before reuse, thoroughly clean any clothing or protective equipment that has been contaminated by prior use. Discard any clothing or other protective equipment that cannot be decontaminated, such as gloves or shoes.

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**SECTION 11. PHYSICAL AND CHEMICAL PROPERTIES**

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**VOLATILE %**

100.000  
by weight

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SECTION 11. PHYSICAL AND CHEMICAL PROPERTIES  
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**BOILING POINT**

123.00 F 50.55 C

**VAPOR DENSITY (Air = 1.0)**

Heavier than air

**EVAPORATION RATE**

Slower than ether

**BULK DENSITY**

9.660  
lbs/gal at 75 F

**PHOTOCHEMICALLY REACTIVE**

NO

**MAX V.O.C.**

0 grams per liter (excluding exempt solvents & water)

**MAX VAPOR PRESSURE**

(of the V.O.C.) 0mm Hg at 20 degrees C  
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SECTION 12. STABILITY AND REACTIVITY  
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**INCOMPATIBILITIES**

Incompatible with strong oxidizing agents, strong caustics, alkali and alkali metal, cyanides, and common and active metals (which produce flammable hydrogen gas).

**DECOMPOSITION**

Thermal decomposition may produce hydrogen chloride vapors.

**POLYMERIZATION**

Will not occur.

**STABILITY**

Stable.  
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SECTION 13. ADDITIONAL INFORMATION  
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**IMPORTANT NOTE**

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

**LEGEND:**

PPM = parts per million  
MG/M3 = milligrams per cubic meter  
N/E or NE = none established  
GT = greater than  
N/A or NA = not applicable  
TCC = tag closed cup  
TOC = tag open cup  
PMCC = Pensky-Martens closed cup  
IDLH = Immediately Dangerous to Life and Health

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\*\*\*END OF MSDS\*\*\*